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TECH CENTER 1600/2900

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT:
 - (A) NAME: The Institute of Cancer Research: Royal

Cancer Hospital

- (B) STREET: Chester Beatty Laboratories, 237 Fulham Road
- (C) CITY: London
- (E) COUNTRY: GB
- (F) POSTAL CODE \((ZIP): SW3 6JB
- (A) NAME: Willison, Keith
- (B) STREET: 79 Chesson Road, West Kensington
- (C) CITY: London
- (E) COUNTRY: GB
- (F) POSTAL CODE (ZIP): W14 9QS
- (A) NAME: Hynes, Gillian
- (B) STREET: 33 Trevor Road, Wimbledon
- (C) CITY: London
- (E) COUNTRY: GB
- (F) POSTAL CODE (ZIP): SW19 3PW
- (A) NAME: Liou, Anthony Kian-Fong
- (B) STREET: 172 Locksley Avenue, Apt #3
- (C) CITY: San Francisco
- (D) STATE: California
- (E) COUNTRY: USA
- (F) POSTAL CODE (ZIP): CA 94122
- (ii) TITLE OF INVENTION: Binding Complexes
- (iii) NUMBER OF SEQUENCES: 12/2
- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 - (v) CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT GB98/01485

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(vi) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: GB 9710762.7
- (B) FILING DATE: 2/3-MAY-1997
- (2) INFORMATION FOR SEQ ID NO 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino \acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ala Pro Arg Ala Val Phe Pro Ser Ile Val Gly Arg Pro Arg His
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Phe Pro Ser Ile Val Gly Arg Pro Arg His Gln Gly Val Met Val
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: \$:

Gly Arg Pro Arg His Gln Gly Val Met Val Gly Met Gly Gln Lys
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Lys

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3 10 15 (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: Ninear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: Pro Arg His Gln Gly Val Met Val Gly Met Gly Gln Lys Asp Ser (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: Thr Phe Asn Thr Pro Ala Met Tyr Val Ala Ile Gln Ala Val Leu (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: Leu Pro His Ala Ile Leu Arg Leu Asp Leu Ala Gly Arg Asp Leu 10 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Leu Ala Ser Leu Ser Thr Phe Gln Gln Met Trp Ile Ser Lya Gln

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: \15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY\ linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Asp Glu Ala Gln Ser Lys Arg Gly Ile Leu Thr Leu Lys Tyr Pro
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Ile Gln Ala Val Leu Ser Leu Tyr Ala Ser Gly Arg Thr Thr Gly
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11

Lys Ile Leu Thr Glu Arg Gly Tyr Ser Phe Thr Thr Ala Glu

1 10 15

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Arg Gly Tyr Ser Phe Thr Thr Ala Glu Arg Glu the Val Arg
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids

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- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Ala Ser Ser Ser Ser Leu Glu Lys Ser Tyr Glu Leu Pro Asp Gly
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amind acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Ala Pro Ser Thr Met Lys Ile Lys Ile Ile Ala Pro Pro Glu Arg
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp\Ile Gly Gly Ser Ile
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Ala Val His Ser Gly Ala Leu Asp Asp 1 5

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

Circons (Mbir) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Ala Val His Ser Gly Ala Leu Asn Asp

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- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino\acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Ser Gly Ser Gly Gly Arg Pro Arg His Gln Gly Val Met Val Gly Met

1 10 15

Gly Gln Lys

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1/9:

Ser Gly Ser Gly Ala Arg Pro Arg His Gl \uparrow n Gly Val Met Val Gly Met 1 5 10 15

Gly Gln Lys

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Ser Gly Ser Gly Gly Ala Pro Arg His Gln Gly Val Met Val Gly Met

1 10 15

Gly Gln Lys

- (2) INFORMATION FOR SEQ ID NO:21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid

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(D) TOPOLOGY: 1\inear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Ser Gly Ser Gly Gly Arg Ala Arg His Gln Gly Val Met Val Gly Met

1 5 \ 10 15

Gly Gln Lys

- (2) INFORMATION FOR SEQ ID NO 122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Ser Gly Ser Gly Gly Arg Pro Ala His Gln Gly Val Met Val Gly Met

1 10 15

Gly Gln Lys

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23/:

Ser Gly Ser Gly Gly Arg Pro Arg Ala Gln Gly Val Met Val Gly Met

1 10 15

Gly Gln Lys

- (2) INFORMATION FOR SEQ ID NO:24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Ser Gly Ser Gly Ala Ala Ala Ala Gln Gly Val Met

10 15

Gly Gln Lys

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C_2
\end{array}$

- (2) INFORMATION FOR SEQ TO NO:25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Met Asp Asp Asp Ile Ala\Ala Leu Val Val Asp Asn Gly Ser Gly
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Ala Ala Leu Val Val Asp Asn Gly Ser Gly Met Cys Lys Ala Gly
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:27:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO $\27$:

Asp Asn Gly Ser Gly Met Cys Lys Ala Gly Phe Ala Gly Asp Asp 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:28:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Met Cys Lys Ala Gly Phe Ala Gly Asp Asp Ala Pho Arg Ala Val
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Phe Ala Gly Asp Asp Ala Pro Arg Ala Val Phe Pro Ser Ile Val
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:3\0:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Ala Pro Arg Ala Val Phe Pro Ser\Ile Val Gly Arg Pro Arg His
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:31:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Phe Pro Ser Ile Val Gly Arg Pro Arg His Gln Gly Val Met Val
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:32:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Gly Arg Pro Arg His Gln Gly Val Met Val Gly Met Gly Gln Lys
1 10 15

- (2) INFORMATION FOR SEQ ID NO:33:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

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Gln Gly Val Met Val Gly Met Gly Gln Lys Asp Ser Tyr Val Gly (2) INFORMATION FOR SEQ ID NO:34: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34: Gly Met Gly Gln Lys Asp Ser Tyr Val Gly Asp Glu Ala Gln Ser 5 (2) INFORMATION FOR SEQ ID NO:35: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35: Asp Ser Tyr Val Gly Asp Glu Ala Oln Ser Lys Arg Gly Ile Leu 10 (2) INFORMATION FOR SEQ ID NO:36: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36: Asp Glu Ala Gln Ser Lys Arg Gly Ile Leu Thr Leu Lys Tyr Pro 10 15 (2) INFORMATION FOR SEQ ID NO:37: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Lys Arg Gly Ile Leu Thr Leu Lys Tyr Pro Ile Glu His Gly Ile

- (2) INFORMATION FOR SEQ ID\NO:38:
 - (i) SEQUENCE CHARACTER STICS:
 - (A) LENGTH: 15 amiho acids
 - (B) TYPE: amino aci∕d
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Thr Leu Lys Tyr Pro Ile Glu His Gly Ile Val Thr Asn Trp Asp
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Ile Glu His Gly Ile Val Thr Asn Trp\Asp Asp Met Glu Lys Ile
1 5 15

- (2) INFORMATION FOR SEQ ID NO:40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp His His Thr Phe
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:41:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Asp Met Glu Lys Ile Trp His His Thr Phe Tyr Asn Glu Leu Arg
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:42:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids

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- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Trp His His Thr Phe Tyr Asn Glu Leu Arg Val Ala Pro Glu Glu
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 43:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino adids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

Tyr Asn Glu Leu Arg Val Ala Pro Glu Glu His Pro Val Leu Leu
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Val Ala Pro Glu Glu His Pro Val Leu Leu Thr Glu Ala Pro Leu

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

His Pro Val Leu Leu Thr Glu Ala Pro Leu Asn Pro Lys Ala Asn 1 5 10

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

Thr Glu Ala Pro Leu Asn\Pro Lys Ala Asn Arg Glu Lys Met Thr
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ\ID NO:47:

Asn Pro Lys Ala Asn Arg Glu Lys Met Thr Gln Ile Met Phe Glu
1 10 15

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

Arg Glu Lys Met Thr Gln Ile Met Phe Glu Thr Phe Asn Thr Pro 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:49:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

Gln Ile Met Phe Glu Thr Phe Asn Thr Pro Ala Met Tyr Val Ala
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:50:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

Thr Phe Asn Thr Pro Ala Met Tyr Val Ala Ile Gln Ala Val Leu
1 5 10 15

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- (2) INFORMATION FOR SEQ ID NO:51:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1/5 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

Ala Met Tyr Val Ala Ile Gln Ala Val Leu Ser Leu Tyr Ala Ser

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:52:
 - (i) SEQUENCE CHARACTERISTIC ::
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ IN NO:52:

Ile Gln Ala Val Leu Ser Leu Tyr Ala Ser Gly Arg Thr Thr Gly
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:53:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

Ser Leu Tyr Ala Ser Gly Arg Thr Thr Gly Ile Val Met Asp Ser 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:54:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

Gly Arg Thr Thr Gly Ile Val Met Asp Ser Gly Asp Gly Val Thr
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:55:

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino adid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

Ile Val Met Asp Ser Gly Asp Gly Val Thr His Thr Val Pro Ile
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

Gly Asp Gly Val Thr His Thr Val Pro Ile Tyr Glu Gly Tyr Ala
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:57:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

His Thr Val Pro Ile Tyr Glu Gly Tyr Ala Leu Pro His Ala Ile

1 10 15

- (2) INFORMATION FOR SEQ ID NO:58:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

Tyr Glu Gly Tyr Ala Leu Pro His Ala Ile Leu Arg Leu Asp Leu 1 5 10

- (2) INFORMATION FOR SEQ ID NO:59:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid

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(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

Leu Pro His Alà Ile Leu Arg Leu Asp Leu Ala Gly Arg Asp Leu
1 10 15

- (2) INFORMATION FOR SEQ ID NO:60:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

Leu Arg Leu Asp Leu Ala Gly Arg Asp Leu Thr Asp Tyr Leu Met

1 10 15

(2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

Ala Gly Arg Asp Leu Thr Asp Tyr Leu Met Lys Ile Leu Thr Glu

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

Thr Asp Tyr Leu Met Lys Ile Leu Thr Glu Arg Gly Tyr Sex Phe
1 5 10

- (2) INFORMATION FOR SEQ ID NO:63:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:



Lys Ile Leu Thr Glu Arg Gly Tyr Ser Phe Thr Thr Ala Glu
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:64:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

Arg Gly Tyr Ser Phe Thr Thr Thr Ala Glu Arg Glu Ile Val Arg
1 10 15

- (2) INFORMATION FOR SEQ ID NO:65:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

Thr Thr Ala Glu Arg Glu Ile Val Arg Asp Ile Lys Glu Lys

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:66:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

Arg Glu Ile Val Arg Asp Ile Lys Glu Lys Leu Cys Tyr Val Ala
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:67:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

Asp Ile Lys Glu Lys Leu Cys Tyr Val Ala Leu Asp Phe Glu Gln
1 5 10 15

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- (2) INFORMATION FOR SEQ ID NO:68:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: \15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

Leu Cys Tyr Val Ala Neu Asp Phe Glu Gln Glu Met Ala Thr Ala
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:69:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino\acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

Leu Asp Phe Glu Gln Glu Met Ala Thr Ala Ala Ser Ser Ser 1 10 15

(2) INFORMATION FOR SEQ ID NO:70:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

Glu Met Ala Thr Ala Ala Ser Ser Ser Ser Leu Glu Lys Ser Tyr

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:71:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

Ala Ser Ser Ser Ser Leu Glu Lys Ser Tyr Glu Leu Pro Asp Gly
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:72:
 - (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

Leu Glu Lys Ser Tyr Glu\Leu Pro Asp Gly Gln Val Ile Thr Ile

1 10 15

- (2) INFORMATION FOR SEQ ID NO: 3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino adids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

Glu Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Asn Glu Arg Phe
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:74:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

Gln Val Ile Thr Ile Gly Asn Glu Arg Phe Arg Cys Pro Glu Ala
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Gly Asn Glu Arg Phe Arg Cys Pro Glu Ala Leu Phe Gln Pro Ser
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76: Arg Cys Pro Glu Ala Leu Phe Gln Pro Ser Phe Leu Gly Met Glu (2) INFORMATION FOR SEQ ID\NO:77: (i) SEQUENCE CHARACTER STICS: (A) LENGTH: 15 amino acids (B) TYPE: amino aci\d (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: \$EQ ID NO:77: Leu Phe Gln Pro Ser Phe Leu Gly Met Glu Ser Cys Gly Ile His 10 (2) INFORMATION FOR SEQ ID NO:78: (i) SEQUENCE CHARACTERISTICS: cóno (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID No:78: Phe Leu Gly Met Glu Ser Cys Gly Ile \His Glu Thr Thr Phe Asn 15 5 (2) INFORMATION FOR SEQ ID NO:79: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79: Ser Cys Gly Ile His Glu Thr Thr Phe Asn Ser\Ile Met Lys Cys 15 10 (2) INFORMATION FOR SEQ ID NO:80: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

Glu Thr Thr Phe Ash Ser Ile Met Lys Cys Asp Val Asp Ile Arg

- (2) INFORMATION FOR SEQ 10 NO:81:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino adid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: \SEQ ID NO:81:

Ser Ile Met Lys Cys Asp Val\Asp Ile Arg Lys Asp Leu Tyr Ala

- (2) INFORMATION FOR SEQ ID NO:82:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

Asp Val Asp Ile Arg Lys Asp Leu Tyr Ala Asn Thr Val Leu Ser 10

- (2) INFORMATION FOR SEQ ID NO:83:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEOUENCE DESCRIPTION: SEQ ID NO:83:

Lys Asp Leu Tyr Ala Asn Thr Val Leu Ser Gly Gly\Thr Thr Met 15 5

- (2) INFORMATION FOR SEQ ID NO:84:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala 10

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- (2) INFORMATION FOR SEQ ID NO:85:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION SEQ ID NO:85:

Gly Gly Thr Thr Met Tyr Pto Gly Ile Ala Asp Arg Met Gln Lys
1 10 15

- (2) INFORMATION FOR SEQ ID NO:86:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

Tyr Pro Gly Ile Ala Asp Arg Met Gln Lys Glu Ile Thr Ala Leu
1 5 15

(2) INFORMATION FOR SEQ ID NO:87:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

Asp Arg Met Gln Lys Glu Ile Thr Ala Leu Ala Pro Ser Thr Met

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:88:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile Lys Ile 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:89:
 - (i) SEQUENCE CHARACTERISTICS:

C

- (A) LENGTH: 15 amino acids
 (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION \ SEQ ID NO:89:

Ala Pro Ser Thr Met Lys Ile Lys Ile Ile Ala Pro Pro Glu Arg
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:90 ?
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID\NO:90:

Lys Ile Lys Ile Ile Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:91:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp the Gly Gly Ser Ile

1 10 15

- (2) INFORMATION FOR SEQ ID NO:92:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Ser
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:93:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

Ile Gly Gly Ser Ile teu Ala Ser Leu Ser Thr Phe Gln Gln Met
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:94:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amind acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

Leu Ala Ser Leu Ser Thr Phe din Gln Met Trp Ile Ser Lys Gln
1 10 15

(2) INFORMATION FOR SEQ ID NO:95:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

Thr Phe Gln Gln Met Trp Ile Ser Lys Gln Glu Tyr Asp Glu Ser
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:96:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

Trp Ile Ser Lys Gln Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val His Arg Lys Cys Phe

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10 15 (2) INFORMATION FOR SEQ ID NO:98: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amin acids (B) TYPE: amino acid√ (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98: Gly Gly Gly Gly Gly Pro Ser Ile Val His Arg Lys Cys Phe 10 (2) INFORMATION FOR SEQ ID NO:99: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO \$99: Gly Gly Gly Gly Gly Gly Gly Gly His Arg Lys Cys Phe (2) INFORMATION FOR SEQ ID NO:100: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100: Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Ser 10 (2) INFORMATION FOR SEQ ID NO:101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: Pro Arg His Gln Gly Val Met Val Gly Met Gly Gln Lys Asp Ser

- 26 (2) INFORMATION FOR \$EQ ID NO:102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: \15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: Ile Val Leu Asp Ser Gly Asp Gly Val Thr His Asn Val Pro Ile 10 (2) INFORMATION FOR SEQ ID NO:103: (i) SEQUENCE CHARACTER STICS: (A) LENGTH: 15 amino acids (B) TYPE: amino actd (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: Leu Val Cys Asp Asn Gly Ser Gly Leu Val Lys Ala Gly Phe Ala (2) INFORMATION FOR SEQ ID NO:104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino actds (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ TD NO:104: Leu Phe Gln Pro Ser Phe Ile Gly\Met Glu Ser Ala Gly Ile His (2) INFORMATION FOR SEQ ID NO:105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105 Thr Thr Ala Glu Arg Glu Ile Val Arg Asp tle Lys Glu Lys Leu 15 1 10
- (2) INFORMATION FOR SEQ ID NO:106:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids

(B) TYPE: amino acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106: Tyr Val Gly Asp Glu Ala Gln Ser Lys Arg Gly Ile Leu Thr Leu 10 (2) INFORMATION FOR SEQ ID NO \107: (i) SEQUENCE CHARACTERISTACS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ\ID NO:107: Val Met Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp Arg 10 (2) INFORMATION FOR SEQ ID NO:108: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO 108: Lys Ile Lys Ile Ile Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp (2) INFORMATION FOR SEQ ID NO:109: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109: Gly Phe Ala Gly Asp Asp Ala Pro Arg Ala Val Phe Pro Ser Ile 10 15 (2) INFORMATION FOR SEQ ID NO:110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

Tyr Asn Glu Leu Arg Val Ala Pro Glu Glu His Pro Thr Leu Leu 1 5 10 15

- (2) INFORMATION FOR SEQ ID \NO:111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: \SEQ ID NO:111:

Thr Phe Gln Gln Met Trp Ile Thr Lys Gln Glu Tyr Asp Glu Ala
1 10 15

- (2) INFORMATION FOR SEQ ID NO:112:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

Asp Glu Asp Glu Thr Thr Ala Leu Val Cys Asp Asn Gly Ser Gly

1 5 10 15

(2) INFORMATION FOR SEQ ID NO:113:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Glu Tyr Asp Glu Ala Gly Pro Ser Ile Val His Arg Lys Cys Phe
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

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(D) N

Ser Lys Gln Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val His Arg
1 5 \ 10 15

- (2) INFORMATION FOR SEQ ID NO:115:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: lihear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

Ile Leu Thr Glu Arg Gly\Tyr Ser Phe Val Thr Thr Ala Glu Arg
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO: 16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ TO NO:116:

Ala Leu Asp Phe Glu Asn Glu Met Ala Thr Ala Ala Ser Ser Ser 1 5 10 15

(2) INFORMATION FOR SEQ ID NO:117:

MINA

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117

Trp Asp Asp Met Glu Lys Ile Trp His His Thr Phe Tyr Asn Glu
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

Ser Thr Asp Leu Val Ala Lys Leu Arg Ala Phe His Asn Glu Ala 1 5 10 15

(2) INFORMATION FOR SEQ ID NO:119:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH 5 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

Gly Ala Leu Asp Asp

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTER STICS:
 - (A) LENGTH: 4 amin acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION:\SEQ ID NO:120:

Ser Gly Ser Gly

(2) INFORMATION FOR SEQ ID NO:121

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

Gly Arg Pro Arg His

- (2) INFORMATION FOR SEQ ID NO:122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

· Ala Ala Ala Ala